

LITHOLOGIC LOG

MONITORING WELL No. EWC002

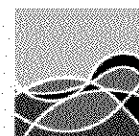
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 10/17/06
Date Completed: 10/20/06
Northing: 1768367.68
Easting: 6470266.69
Elevation: 51.76 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
0							8" Concrete	
2						ML/CL	Brown (10YR 4/3), CLAYEY SILT/SILTY CLAY, moist, stiff, plastic, little fine-grained sand. Brick and concrete debris - reworked - base. Note: Brick and concrete debris.	
4								
6								
8						ML	Brown (10YR 4/3), SILT, moist, stiff, trace clay, little fine-grained sand.	
10								
12				0.0				
14								
16								
18				0.0		ML	Grayish brown (10YR 5/2), SILT, moist, firm, some very fine-grained sand.	
20								



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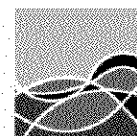
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details			
22				0.0		CL	Dark grayish brown (10YR 4/2), CLAY, moist, stiff to hard, moderately plastic, little silt and fine sand, few caliche nodules.				
24				0.0		SM	Yellowish brown (10YR 5/4), SILTY SAND, moist, poorly graded, fine- to very fine-grained.				
26											
28											
30				0.0		CL	Brown (10YR 4/3), CLAY, moist, plastic, firm, some silt, trace fine-grained sand.				
32							Light yellowish brown (10YR 5/4), SAND, moist, poorly graded, fine- to very fine-grained, little silt.				
34						SP	Yellowish brown (10YR 5/6), SAND, moist, poorly graded, fine-grained.				
36											
38				0.0			Light yellowish brown (10YR 5/4), SAND, slightly moist, poorly graded, fine- to very fine-grained, little silt.				
40											



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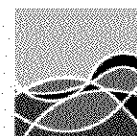
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42						SP					
44				0.0		ML	Olive brown (2.5Y 4/4), SILT, moist, firm, little fine-grained sand, oxidation stained veinlets throughout.				
46											
48				0.0							
50							as above with 30% fine-grained sand.				
52				0.0		SP	Brown (10YR 4/3), SAND, moist, dense, poorly graded, fine- to very fine-grained, trace silt.				
54				0.0		ML	Dark yellowish brown (10YR 4/4), SILT, moist to very moist, firm, some very fine-grained sand, trace clay, micaceous.				
56						SM	Dark yellowish brown (10YR 4/4), SILTY SAND, moist, dense, poorly graded, very fine-grained, micaceous.				
58				0.0		ML	Light olive brown (10YR 5/4), SILT, moist, firm, little very fine-grained sand, trace clay.				
60											



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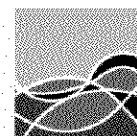
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62				0.0		SM	Light olive brown (2.5Y 5/4), SILTY SAND, moist, poorly graded, very fine-grained.	
64				1.4			Light olive brown (2.5Y 5/4), SILTY SAND, very moist, thin interbeds of fine-grained sand.	
66				0.0		ML	Olive brown (2.5Y 4/3), SILT, very moist to wet, micaceous, trace clay.	
68				0.7		SP	Olive brown (2.5Y 4/4), SAND, wet, poorly graded, very fine-grained, little silt. Groundwater encountered at approximately 67 feet.	
70				0.0			Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, fine-grained, oxidation staining, thin zone of saturation.	
72				0.0			; as above, wet, poorly graded, fine-grained.	
74				0.0		SM	Olive brown (2.5Y 4/4), SANDY SILT/SILTY SAND, moist to very moist, stiff, very fine-grained sand, thin silt interbeds approximately 4" thick.	
76				0.0		SP	Olive brown (2.5Y 4/4), SAND, very moist, poorly graded, fine-grained.	
78				0.3		ML	Olive brown, SILT, very moist, firm, some very fine-grained sand, some oxidation staining, micaceous.	
80						SM	Olive brown (2.5Y 4/4), SILTY SAND, very moist, stiff, very fine- to fine-grained, some oxidation staining in veinlets.	



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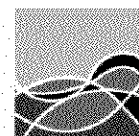
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
82				0.0		ML	Olive brown (2.5Y 4/4), SILT, moist to very moist, firm, little fine-grained sand, some clay.	<p>Outer Conductor Casing</p> <p>Bentonite Pellets</p> <p>#3 Sand</p>
84				0.0		SP	Olive brown (2.5Y 4/3), SAND, wet to saturated, poorly graded, fine-grained, 15% medium-grained, some zones with silt, oxidation staining (faint), shells at 83 feet.	
86				0.0		ML	Light olive brown (2.5Y 5/4), CLAYEY SILT, moist, stiff, crumbly with abundant shells. Note: Outer conductor casing set at 85 feet. Install bentonite pellet seal. Continue drilling with inner casing.	
88						SM	Light olive brown (2.5Y 5/3), SILTY SAND, very moist, poorly graded, fine-grained, little clay, abundant shells and shell fragments throughout.	
90				0.0		SP	Light olive brown, (2.5Y 5/4), SAND, wet, poorly graded, fine-grained, faint oxidation staining.	
92				0.0		CL	Olive brown (2.5Y 5/4), CLAY, moist, firm, approximately 6" thick, plastic, oxidation staining in thin layers.	
94				0.0		SP	Light olive brown, (2.5Y 5/4), SAND, wet, poorly graded, fine-grained, oxidation staining in layers.	
96				0.0		CL	Olive brown (2.5Y 4/3), CLAY, moist, firm to stiff, plastic, some silt, oxidation staining in thin layers.	
98				0.0		SP	Light olive brown, (2.5Y 4/3), SAND, wet to saturated, poorly graded, fine-grained.	
100				0.0		CL	Olive brown (2.5Y 4/4), CLAY, moist, stiff, plastic, some silt, little oxidation staining.	



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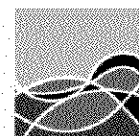
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
102				0.0		SM	Olive brown, SILTY SAND, little clay.	4" Sch 80 PVC 0.02" Slot
				0.0		CL	Olive brown (2.5Y 4/4), CLAY, moist, stiff, plastic.	
104				0.0		SP	Light olive brown, (2.5Y 4/3), SAND, wet, poorly graded, fine-grained, 5% medium-grained, abundant small shell fragments throughout.	
106				0.0		CL	Olive brown (2.5Y 4/4), CLAY with SILT, moist, stiff, slightly plastic, oxidation staining in thin layers.	
108				0.0		SP	Light olive brown, (2.5Y 4/3), SAND, wet, poorly graded, fine-grained, no shells, fining graduationaly upward over 6" into overlying clay.	
110				0.0			as above, very fine-grained, little silt.	
112				0.0		SW	4" Layer of GRAVELLY SAND, bi-modally graded fine sand with medium to large subangular gravel, oxidation staining.	
114				0.0		SP	Light olive brown, (2.5Y 5/3), SAND, wet, poorly graded, very fine- to fine-grained, thin intervals with little fine- to coarse-grained subangular gravel.	
116				0.0		CL	Olive brown (2.5Y 4/3), SAND, wet, poorly graded, fine-grained, faint oxidation staining, no shells. Olive (5Y 4/4), CLAY, moist, hard, plastic, oxidation stained, scour contact with overlying sand.	4" Sch 80 PVC 0.02" Slot
118				0.0		ML	Olive (5Y 4/4), CLAYEY SILT, moist to very moist, slightly plastic, occasional interbeds of sandy silt.	
120								



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
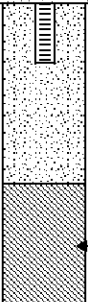


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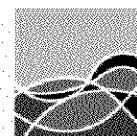
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
122				0.0		ML		 Bentonite Pellets
124				0.0		CL	Olive (5Y 4/4), SILTY SANDY CLAY, moist, stiff, plastic, fine-grained sand, faint oxidation staining.	
126				0.0		SP	Olive brown (2.5Y 4/4), SAND, wet to saturated, poorly graded, very fine to fine-grained, faint oxidation staining.	
128							<u>Well Detail</u> 0 to 96 4" Sch 80 PVC Blank 96 to 121 4" Sch 80 PVC 0.020 Slot 0 to 2.5 Concrete with Traffic Rated Well Box 2.5 to 4 Bentonite Chips 4 to 88 Portland Cement w/ 5% Bentonite Grout 88 to 93 Bentonite Pellets 93 to 123 Sand 123 to 125 Bentonite Pellets	
130								
132								
134								
136								
138								
140								

Notes: Boring total depth 125 feet. Groundwater encountered at approximately 67 feet. Boring completed as a groundwater monitoring well.



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